

CURRICULUM VITAE

University of Virginia
Department of Pharmacology &
Robert M. Berne Cardiovascular Research Center

Biographical

Name: [Vlad Serbulea](#) **Email Address:** vs9ck@virginia.edu

Business Phone: 434-243-0810

Business Address: 1340 Jefferson Park Ave, Charlottesville VA 22903

Education and Training

Undergraduate:

2008-2012 University of California, Santa Barbara B.S., Chemistry &
College of Creative Studies Biochemistry
Santa Barbara, CA

Graduate:

2012-2014 University of Virginia M.S., Biological & Physical
Graduate School of Arts & Sciences Sciences
Charlottesville, VA

2015 Vanderbilt University Mass Spectrometry Training
Nashville, TN *Lab of Dr. Sean Davies*

2012-2018 University of Virginia Ph.D., Pharmacology
School of Medicine *Lab of Dr. Norbert Leitinger*
Charlottesville, VA

Postgraduate:

2018-2022 University of Virginia Postdoctoral Fellowship
Cardiovascular Research Center *Lab of Dr. Gary K Owens*
Charlottesville, VA

Memberships in Professional and Scientific Societies:

Member, American Chemical Society 2009-2012
Member, Society for Redox Biology and Medicine 2013-Present
Member, American Heart Association 2013-Present

Positions:

Undergraduate Research Assistant 2010-2011
Graduate Student 2012-2018
Postdoctoral Research Fellow 2018-2022
Research Assistant Professor 2023-Present

Honors

1. Young Investigator Award – *Society for Redox Biology and Medicine (SfRBM)* 2014
 2. Mini-Fellowship – *SfRBM* 2015
 3. Pre-Doctoral Fellowship – *American Heart Association* 2015
 4. Double-Hoo Research Award – *University of Virginia (UVA)* 2016
 5. F31 NRSA Pre-Doctoral Fellowship – *National Institutes of Health (NIDDK)* 2016
 6. Pharmacology Student Poster Award: Best Overall Poster – *UVA* 2017
 7. Larry Oberley Young Investigator Award – *SfRBM* 2017
 8. Pharmacology Outstanding Graduate Student Award – *UVA* 2018
 9. Michael J. Peach Outstanding Graduate Student Award – *UVA* 2018
 10. Ted W. Rall Award for Best Publication from Pharmacology – *UVA* 2018
 11. Young Investigator Award – *SfRBM* 2018
 12. Travel Award – *SfRBM* 2019
 13. F32 NRSA Post-Doctoral Fellowship – *National Institutes of Health (NHLBI)* 2021
 14. Pharmacology Presentation Award: Best Postdoctoral Presentation– *UVA* 2022
 15. Young Investigator Award – *SfRBM* 2022
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Publications

Refereed Articles:

1. Schaheen B, Downs EA, **Serbulea V**, Almenara CC, Spinoso M, Su G, Zhao Y, Srikakulapu P, Butts C, McNamara CA, Leitinger N, Upchurch GR Jr, Meher AK, Ailawadi G. *B-Cell Depletion Promotes Aortic Infiltration of Immunosuppressive Cells and Is Protective of Experimental Aortic Aneurysm*. **Arterioscler Thromb Vasc Biol**. 2016 <https://doi.org/10.1161/ATVBAHA.116.307559>
2. Wilkins LR, Brautigan DL, Wu H, Yarmohammadi H, Kubicka E, **Serbulea V**, Leitinger N, Liu W, Haaga JR. *Cinnamic Acid Derivatives Enhance the Efficacy of Transarterial Embolization in a Rat Model of Hepatocellular Carcinoma*. **Cardiovasc Intervent Radiol**. 2017 <https://doi.org/10.1007/s00270-016-1515-y>
3. Dyballa-Rukes N, Jakobs P, Eckers A, Ale-Agha N, **Serbulea V**, Aufenvenne K, Zschauer TC, Rabanter LL, Jakob S, von Ameln F, Eckermann O, Leitinger N, Goy C, Altschmied J, Haendeler J. *The Anti-Apoptotic Properties of APEX1 in the Endothelium Require the First 20 Amino Acids and Converge on Thioredoxin-1*. **Antioxid Redox Signal**. 2017 **Featured on journal cover** <https://doi.org/10.1089/ars.2016.6799>
4. Olmez I, Brenneman B, Xiao A, **Serbulea V**, Zhang Y, Lee J, Nakano I, Godlewski J, Bronisz A, Abounader R, Leitinger N, Purow B. *Combined CDK4/6 and mTOR inhibition is synergistic against glioblastoma via multiple mechanisms*. **Clin Cancer Res**. 2017 <https://doi.org/10.1158/1078-0432>
5. **Serbulea V**, Upchurch CM, Ahern KW, Bories G, Voigt PE, Deweese DE, Meher AK, Harris TE, Leitinger N. *Macrophages sensing oxidized DAMPs reprogram their metabolism to support redox homeostasis and inflammation through a TLR2-Syk-ceramide dependent mechanism*. **Molecular Metabolism**. 2017 <https://doi.org/10.1016/j.molmet.2017.11.002>
6. Kerur N, Fukuda S, Banerjee D, Kim Y, Fu D, Apicella I, Varshney A, Yasuma R, Fowler BJ, Baghdasaryan E, Marion KM, Huang X, Yasuma T, Hirano Y, **Serbulea V**, Ambati M,

- Ambati VL, Kajiwarra Y, Ambati K, Hirahara S, Bastos-Carvalho A, Ogura Y, Terasaki H, Oshika T, Kim KB, Hinton DR, Leitinger N, Cambier JC, Buxbaum JD, Kenney MC, Jazwinski SM, Nagai H, West AP, Fitzgerald KA, Sadda SR, Gelfand BD, Ambati J. *cGAS drives non-canonical NLRP3 inflammasome in age-related macular degeneration*. **Nature Medicine**. 2018
<https://doi.org/10.1038/nm.4450>
7. Meher AK, Spinosa M, Davis JS, Pope N, Laubach VE, Su G, **Serbulea V**, Leitinger N, Ailawadi G, Upchurch GR Jr. *Novel Role of IL(Interleukin)-1 β in Neutrophil Extracellular Trap Formation and Abdominal Aortic Aneurysms*. **Arterioscler Thromb Vasc Biol**. 2018
<https://doi.org/10.116/ATVBAHA.117.309897>
 8. **Serbulea V**, Upchurch CM, Schappe MS, Voigt PE, Deweese DE, Desai BN, Meher AK, Leitinger N. *Macrophage phenotype and bioenergetics are controlled by oxidized phospholipids identified in lean and obese adipose tissue*. **Proc Natl Acad Sci USA**. 2018
<https://doi.org/10.1073/pnas.1800544115>
 9. Morioka S, Perry JSA, Raymond MH, **Serbulea V**, Onengut-Gumuscu S, Leitinger N, Rathmell JC, Ravichandran KS. *Dynamic expression and function of solute carrier (SLC) proteins during phagocytosis of apoptotic cells*. **Nature**. 2018
<https://doi.org/10.1038/s41586-018-0735-5>
 10. Ahern KW, **Serbulea V**, Wingrove C, Palas Z, Leitinger N, Harris T. *Regioisomer-independent quantification of fatty acid oxidation products by HPLC-ESI-MS/MS analysis of sodium adducts*. **Scientific Reports**. 2019
<https://doi.org/10.1038/s41598-019-47693-5>
 11. Kruger N, Biwer LA, Good ME, DeLalio LJ, Murphy S, **Serbulea V**, Best AK, Leitinger N, Sonkusare SK, Godecke A, Ruther U, Isakson BE. *Loss of endothelial FTO antagonizes obesity-induced metabolic and vascular dysfunction*. **Circ Res**. 2020
<https://doi.org/10.1161/CIRCRESAHA.119.315531>
 12. Bories GF, Yeudall S, **Serbulea V**, Fox TE, Isakson BE, Leitinger N. *Macrophage metabolic adaptation to heme detoxification involves CO-dependent activation of the pentose phosphate pathway*. **Blood**. 2020
<https://doi.org/10.1182/blood.2020004964>
 13. Seki SM, Posyniak K, McCloud R, Rosen DA, Fernandez-Castaneda A, Beiter RM, **Serbulea V**, Nanziri SC, Hayes N, Spivey C, Gemta L, Bullock TNJ, Hsu KL, Gaultier A. *Modulation of PKM activity affects the differentiation of TH17 cells*. **Science Signaling**. 2020
<https://doi.org/10.1126/scisignal.aay9217>
 14. Senthivinayagam S, **Serbulea V**, Upchurch CM, Polanowska-Grabowska R, Mendu SK, Sahu S, Jayaguru P, Aylor KW, Chordia MD, Steinberg L, Oberholzer N, Uchiyama S, Inada N, Lorenz UM, Harris TE, Keller SR, Meher AK, Kadl A, Desai BN, Kundu BK, Leitinger N. *Adaptive thermogenesis in brown adipose tissue involves activation of pannexin-1 channels*. **Molecular Metabolism**. 2021
<https://doi.org/10.1016/j.molmet.2020.101130>
 15. Congdon M, Fritzeimer R, Kharel Y, Brown A, **Serbulea V**, Bevan D, Lynch K, Santos W. *Probing the Substitution Pattern of Indole-Based Scaffold Reveal Potent and Selective Sphingosine Kinase 2 Inhibitors*. **European Journal of Medicinal Chemistry**. 2021
<https://doi.org/10.1016/j.ejmech.2020.113121>
 16. Newman AAC*, **Serbulea V***, Baylis RA*, Shankman LS, Bradley X, Alencar GF, Owsiany K, Deaton RA, Karnewar S, Shamsuzzaman S, Salamon A, Reddy MS, Guo L, Finn A, Virmani R, Cherepanova OA, Owens GK. *Multiple cell types contribute to the atherosclerotic lesion fibrous cap by PDGFRB and bioenergetic mechanisms*. **Nature Metabolism**. 2021 *indicates equal contributions
<https://doi.org/10.1038/s42255-020-00338-8>

17. Hartmann F, Gorski DJ, Newman AAC, Homann S, Petz A, Owsiany KM, **Serbulea V**, Zhou Y, Deaton RA, Bendeck M, Owens GK, Fischer JW. *SMC derived hyaluronan modulates vascular SMC-phenotype in murine atherosclerosis*. **Circ Res**. 2021
<https://doi.org/10.1161/CIRCRESAHA.120.318479>
18. Lempicki M, Paul S, **Serbulea V**, Upchurch CM, Sahu S, Gray JA, Ailawadi G, Garcia BL, McNamara CA, Leitinger N, Meher AK. *BAFF antagonism via the BAFF receptor 3 binding site attenuates BAFF 60-mer-induced classical NF- κ B signaling and metabolic reprogramming of B cells*. **Cellular Immunology**. 2022
<https://doi.org/10.1016/j.cellimm.2022.104603>
19. Luse MA, Kruger N, Good M, Biwer LA, **Serbulea V**, Deaton RA, Leitinger N, Owens GK, Godecke A, Isakson BE. *Smooth muscle cell FTO regulates contractile function*. **American Journal of Physiology**. 2022
<https://doi.org/10.1152/ajpheart.00427.2022>
20. Deaton RA, Bulut G, **Serbulea V**, Salamon A, Shankman LS, Nguyen AT, Owens GK. *A new autosomal Myh11-CreER^{T2} smooth muscle cell lineage tracing and gene knockout mouse model*. **ATVB**. 2023
<https://doi.org/10.1161/ATVBAHA.122.318160>
21. Chen M, Shin M, Ware TB, Donvito G, Muchhala KH, Mischel R, Mustafa MA, **Serbulea V**, Upchurch CM, Leitinger N, Akbarali HI, Lichtman AH, Hsu KL. *Endocannabinoid biosynthetic enzymes regulate pain response via LKB1-1 AMPK signaling*. **PNAS**. 2024
<https://doi.org/10.1073/pnas.2304900120>
22. Genet G, Genet N, Paila U, Cain S, Cwiek A, Chavkin N, **Serbulea V**, Figueras A, Cerda P, McDonnell S, Sankaranarayanan D, Huba M, Nelson E, Riera-Mestre A, Hirschi K. *Induced Endothelial Cell Cycle Arrest Prevents Arterio-venous Malformations in Hereditary Hemorrhagic Telangiectasia*. **Circulation**. 2023
<https://doi.org/10.1161/CIRCULATIONAHA.122.062952>

Articles pending:

1. Shamsuzzaman S*, Deaton RA*, Doviak H, Evans M, Salamon A, Karnewar S, **Serbulea V**, Alencar G, Shankman L, Walsh K, Bekiranov S, Kull B, Persson M, Bergenheim N, Hagvall S, Owens GK. *A Novel Mouse Model of Myocardial Infarction, Plaque Rupture and Stroke Shows Improved Survival with Myeloperoxidase Inhibition*. *Under review at *Circulation*

Reviews, invited published papers, editorials, and book chapters:

1. **Serbulea V**, Leitinger N. *Modulation of Toll-Like Receptor Signaling by Oxidized Phospholipids*, in Spickett, C. M. & Forman H. J., eds., **Lipid Oxidation in Health and Disease**. CRC Press, 2015
ISBN: 9781482202854
2. **Serbulea V**, DeWeese D, Leitinger N. *The effect of oxidized phospholipids on phenotypic polarization and function of macrophages*. **Free Radic Biol Med**. 2017
<https://doi.org/10.1016/j.freeradbiomed.2017.02.035>
3. Jakobs P*, **Serbulea V***, Leitinger N, Eckers A, Haendeler J. *Nuclear Factor (Erythroid-Derived 2)-Like 2 and Thioredoxin-1 in Atherosclerosis and Ischemia/Reperfusion Injury in the Heart*. **Antioxid Redox Signal**. 2017 *indicates equal contributions
<https://doi.org/10.1089/ars.2016.6795>
4. **Serbulea V**, Deaton RA, Owens GK. *Old bones control smooth muscle clones*. **Nature Aging**. 2023
<https://doi.org/10.1038/s43587-022-00346-1>

Published Abstracts:

1. **Serbulea V**, Leitinger N. Modulation of Macrophage Respiratory Capacity by Oxidized Phospholipids. *Free Radical Biology and Medicine* 65, S39-S40. 2013
2. Meher AK, Pope N, Su G, Davis JP, **Serbulea V**, Laubach VE, Leitinger N, Ailawadi G, Upchurch GR. IL-1 β -Induced Ceramide Synthesis Accentuates NETosis and Inflammation in Abdominal Aortic Aneurysms. *Arterioscler Thromb Vasc Biol* 34, A109-A109. 2014
3. **Serbulea V**, Meher AK, Leitinger N. Oxidized Phospholipids Inhibit Mitochondrial Function of Macrophages through a TLR2-Ceramide Dependent Pathway. *Free Radical Biology and Medicine* 76, S64. 2014
4. **Serbulea V**, Meher AK, Adamson S, Alsayab B, Leitinger N. Oxidized Phospholipids Control Adipose Tissue Macrophage Bioenergetics and Inflammatory Capacity Through a Tlr2-syk-ceramide Dependent Pathway. *Free Radical Biology and Medicine* 87, S43-S44. 2015
5. **Serbulea V**, Meher AK, Adamson S, Leitinger N. Control of Adipose Tissue Macrophage Metabolism by Oxidized Phospholipids. *Arterioscler Thromb Vasc Biol* 36, A417. 2016
6. Moss ME, Iyer S, Engelbertsen D, **Serbulea V**, Lichtman A, Leitinger N, Jaffe IZ. Endothelial Mineralocorticoid Receptors Contribute to Sex-Dependent Vascular Inflammation and Plaque Vulnerability in Atherosclerosis. *The FASEB Journal* 31, 679.3. 2017
7. **Serbulea V**, Jakobs P, Sahu S, Srikakulapu P, McNamara CA, Ailawadi G, Upchurch GR, Leitinger N, Meher AK. Multimerization of BAFF Regulates B Cell Function and Growth of Aortic Aneurysms. *Arterioscler Thromb Vasc Biol* 37, A484. 2017
8. **Serbulea V**, Upchurch CM, Bories G, Schappe MS, DeWeese D, Voigt P, Desai BN, Meher AK, Leitinger N. Oxidized Phospholipids Differentially Reprogram Macrophages for Redox Homeostasis or Inflammation. *Free Radical Biology and Medicine* 112, 175. 2017
9. Upchurch CM, **Serbulea V**, Leitinger N. Dynamic Oxidized Phospholipid Composition within the Liver Plays a Role in Non-alcoholic Fatty Liver Disease Progression. *Free Radical Biology and Medicine* 112, 177-178. 2017
10. **Serbulea V**, Newman AAC, Owens GK. Aerobic glycolysis is necessary for smooth muscle to myofibroblast transition in response to PDGF. *Free Radical Biology and Medicine* 128, S40. 2018
11. Meher AK, **Serbulea V**, Upchurch CM, Osinski V, Sahu S, Hargett S, Hoehn KL, Harris TE, Klibanov AL, McNamara CA, Leitinger N. An Unexpected Role for ACC in Lipid Droplet Formation in Macrophages in Response to Acellular Adipocyte Fat. *Arterioscler Thromb Vasc Biol* 38, A428. 2018
12. **Serbulea V**, Spinosa M, Montgomery W, Sahu S, Srikakulapu McNamara CA, Upchurch GR, Ailawadi G, Leitinger N, Meher AK. BAFF 60mer is Critical for B Cell Activation and BAFF Depletion Suppresses AAA Formation. *Arterioscler Thromb Vasc Biol* 38, A260. 2018
13. Spinosa M, **Serbulea V**, Montgomery W, Upchurch CM, Sahu S, Srikakulapu P, McNamara CA, Upchurch GR, Ailawadi G, Leitinger N, Meher AK. Baff-br3 Signaling Promotes Aortic Aneurysm Formation via Metabolic Reprogramming of B Cells. *Arterioscler Thromb Vasc Biol* 39, A602. 2019
14. Bulut GB, Alencar G, **Serbulea V**, Owens GK. Klf4 Dependent Plasticity of Perivascular Cells is Detrimental for Diet Induced Obesity Associated Adipose Tissue Inflammation and Fibrosis. *Circulation*. 2019
15. **Serbulea V**, Newman AAC, Baylis R, Reddy M, Salamon A, Bradley X, Owens GK. Bioenergetic Changes Underlie Pdgfr β - and Il1 β -driven Atherosclerotic Lesion Stabilization by Vascular Cells. *Free Radical Biology and Medicine*. 2019
16. Bradley XG, Baylis RA, Newman AAC, **Serbulea V**, Alencar G, Cherepanova OA, Owens GK. IL1 Signaling in Endothelial Cells is Athero-protective by Inducing Beneficial Endo-MT During Late-stage Murine Atherosclerosis. *Arterioscler Thromb Vasc Biol*. 2020

17. Salamon A, **Serbulea V**, Deaton R, Owens GK. Glutamine Metabolism Contributes to Smooth Muscle-to-myofibroblast Transitions and Enriched Extracellular Matrix Production. *Free Radical Biology and Medicine*. 2020
18. **Serbulea V**, Martin J, Reddy M, Salamon A, Baylis R, Newman AAC, Owsiany K, Alencar G, Deaton R, Owens GK. Novel Therapeutic Manipulations of Smooth Muscle Cell Metabolism to Enhance Atherosclerotic Fibrous Cap Stability. *Free Radical Biology and Medicine*. 2020
19. Reddy MS, **Serbulea V**, Shamsuzzaman S, Salamon A, Tripathi R, Miller C, Mocci G, Bjorkegren J, Owens GK. A Transcriptional Regulation Bioinformatics Pipeline to Predict Co-Regulated Genes in Vascular Smooth Muscle Cell Phenotypic Transitions During Atherosclerosis. *The FASEB Journal*. 2022
20. Lempicki MD, **Serbulea V**, Paul S, Upchurch CM, Sahu S, Gray JA, Ailawadi G, Garcia BL, McNamara C, Leitinger N, Meher AK. BAFF 60-mer binding to BAFF receptor 3 utilizes the NF-kB1 signaling pathway to hyperactivate B cells. *The FASEB Journal*. 2022
21. **Serbulea V**, Salamon A, Owens GK. Augmentation of Smooth Muscle Aerobic Glycolysis Rescues Atherosclerosis-associated Mortality in Mice. *Free Radical Biology and Medicine*. 2022

Research Support

Current Grant Support:

Grant Number	Grant Title	Role in Project	Years Inclusive	Source Amount
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Prior Grant Support:

Grant Number	Grant Title	Role in Project	Years Inclusive	Source Amount
NRSA Post-doctoral Fellowship F32 HL156491 (NIH/NHLBI)	Bioenergetic manipulation of smooth muscle cells as a novel therapeutic intervention for atherosclerosis	PI	09/30/2021-09/30/2022	\$68,562
T32 HL-007284 (NIH/NHLBI)	On the Bioenergetics of Smooth Muscle Cells in Atherosclerosis	Trainee	06/01/2018-05/30/2021	\$97,860
NRSA Pre-doctoral Fellowship F31 DK108553 (NIH/NIDDK)	The Role of Oxidized Phospholipids in Macrophage Bioenergetics and Inflammation	PI	07/01/2016-06/30/2018	\$61,624
AHA Pre-doctoral Fellowship 15PRE25560036	Oxidized phospholipids act through TLR2 and Syk to induce chronic low-grade inflammation & insulin resistance in obesity	PI	07/01/2015-06/30/2016	\$56,250
Double-Hoo Research Award LC00111 (UVA)	Identifying Pro-inflammatory Oxidized Phospholipids in Obesity and Diabetes	Co-PI	08/18/2016-06/30/2017	\$6,300
Mini-Fellowship (SfRBM)	Measuring oxidized phospholipids using liquid chromatography-mass spectrometry	PI	11/01/2014-10/31/2015	\$2,500

T32 GM007055-40 (NIH/NIGMS)	Oxidized phospholipids modulate mitochondrial function of macrophages through a TLR2-ceramide dependent mechanism	Trainee	07/01/2013-06/30/2015	\$45,840
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Teaching

Years Taught: 2021, 2022, 2023

Course: PHYS 8052/8053 Vascular Biology

Department: Department of Molecular Physiology and Biological Physics

Lecture Title: Redox Regulation in the Vasculature

Extramural Presentations

1. **Serbulea V**, Leitinger N. 2013. Modulation of Macrophage Respiratory Capacity by Oxidized Phospholipids. *Poster presentation*, Society for Redox Biology and Medicine Annual Meeting, San Antonio, TX.
2. **Serbulea V**, Meher AK, Leitinger N. 2014. Oxidized phospholipids inhibit mitochondrial function of macrophages through a TLR2-ceramide dependent pathway. *Oral presentation*, Society for Redox Biology and Medicine Annual Meeting, Seattle, WA.
3. **Serbulea V**, Meher AK, Alsayab B, Leitinger N. 2015. Oxidized phospholipids regulate macrophage bioenergetics through TLR2-dependent ceramide accumulation. *Poster presentation*, LIPID MAPS Annual Meeting, La Jolla, CA.
4. **Serbulea V**, Leitinger N. 2015. Oxidized phospholipids control adipose tissue macrophage bioenergetics and inflammatory capacity through a TLR2-Syk-ceramide dependent pathway. *Oral presentation*, Society for Redox Biology and Medicine Annual Meeting, Boston, MA.
5. **Serbulea V**, Upchurch CM, Schappe MS, Voigt P, DeWeese DE, Desai BN, Leitinger N. 2017. Oxidized phospholipids differentially reprogram macrophages for redox homeostasis or inflammation. *Poster presentation*, Society for Redox Biology and Medicine Annual Meeting, Baltimore, MD.
6. **Serbulea V**, Newman AAC, Owens GK. 2018. Smooth muscle cell metabolism as a novel target for atherosclerosis. *Poster presentation*, Society for Redox Biology and Medicine Annual Meeting, Chicago, IL.
7. **Serbulea V**, Newman AAC, Baylis RA, Reddy M, Salamon A, Bradley X, Owens GK. 2019. Bioenergetic Changes Underlie Pdgfrb- and I11B-driven Atherosclerotic Lesion Stabilization by Vascular Cells. *Oral presentation*, Society for Redox Biology and Medicine Annual Meeting, Las Vegas, NV.
8. **Serbulea V**, Martin J, Reddy M, Salamon A, Baylis R, Newman AAC, Owsiany K, Alencar G, Deaton R, Owens GK. Novel Therapeutic Manipulations of Smooth Muscle Cell Metabolism to Enhance Atherosclerotic Fibrous Cap Stability. 2020. *Oral presentation*, Society for Redox Biology and Medicine Annual Meeting, Virtual.
9. **Serbulea V**, Salamon A, Owens GK. Novel Therapeutic Manipulations of Smooth Muscle Cell Metabolism to Enhance Atherosclerotic Fibrous Cap Stability. 2022. *Poster presentation*, Society for Redox Biology and Medicine Annual Meeting, Orlando, FL.

Professional References

1. **Dr. Gary Owens, PhD** (gko@virginia.edu) Office: 434-924-2652
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2. **Dr. Norbert Leitinger, PhD** (nl2q@virginia.edu) Office: 434-243-6363
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3. **Dr. Thurl Harris, PhD** (teh3c@virginia.edu) Office: 434-924-1584
Associate Professor – Director of Graduate Studies/Collaborator
University of Virginia, Pharmacology Department
4. **Dr. Kyle Hoehn, PhD** (k.hoehn@unsw.edu.au) Office: 434-924-2840
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University of New South Wales, Prince of Wales Clinical School